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bered that Cuvier laid the foundations of his fame as a comparative anatomist at out-of-the-way spots on different points of the coast of France; Quatrefages made his most important researches on the coast in fishermen's houses, his tables of boards and his equipments most scanty. Better than elaborate and costly microscopes and laboratory apparatus is energy, industry and a mind well trained in the methods of research. All of these qualities are evinced in the publication before us, and is the result of workers trained in this country.

The contents, of what we hope will be the first of a series of similar biological contributions from the summer workshop of Johns Hopkins University, is an introductory giving an account of the foundation of the laboratory, to which the readers of this journal have already had their attention drawn. This is followed by papers on the Land Plants found at Fort Wool, by N. B. Webster; a list of animals found at Fort Wool, by P. R. Uhler; Development of Lingula, by W. K. Brooks; *Lucifer typus*, by Walter Faxon; Development of Gastropods, by W. K. Brooks; Development of Squilla, by W. K. Brooks. The paper on the early stages of Amphioxus, by H. J. Rice, has been delayed by the sickness of the author, and will be printed elsewhere at an early date.

Without disparagement to the other essays, that on Lingula will excite the most interest from the nature of the subject. The author, after a careful and fully illustrated study of the early stages of this shelled worm, as all must now regard it since Morse's discovery of its true relationship, concludes that the Brachiopoda are the most highly specialized representatives of the Polyzoön branch, the Rotifera, Polyzoa, and Veliger (a generalized form from which the different types of Mollusks are supposed to have diverged) having so separated at a very early period from a common vermian stem. "The three stems appear to be sufficiently closely related to each other, and sufficiently sharply distinguished from all other animals, to constitute by themselves one of the fundamental divisions of the animal kingdom, which might be called, on account of the conspicuous character of the trochal disc, the *Trochifera*."

REPORT OF THE BOARD OF COMMISSIONERS OF THE GEOLOGICAL SURVEYS OF PENNSYLVANIA FOR 1878.—This document of four pages was printed for the use of the members of the Legislature, and is signed by Governor Hartranft, chairman of the Board. It conveys the information that twenty-four counties have been completely surveyed; thirty-one counties partially, and thirteen counties not surveyed. Thus a little less than half of the area of the State in counties has been surveyed, although actually rather more than half of the ground has been gone over. The most extensive continuous tract finished is that west of the Alleghenies and south of Crawford and Elk counties. The rapidity with which

the work has been done is expressed in the statement that "we have been able to publish each year reports of the work done the preceding year, an achievement which is believed to have been seldom accomplished in the history of Geological Surveys." The report states that two additional years will be requisite for the completion of the Survey, for which an appropriation of \$100,000 is asked. On this we remark, that this request is a very modest one so far as the time required is concerned, and is probably made with the view of representing the survey in as economical a light as possible. The unfinished tract includes the most difficult ground; and will require relatively more time than that which has been completed: moreover no one supposes that the region reported as finished, could not be further elaborated with advantage to all the interests concerned. Again, the important department of palæontology has received little attention from the Survey, the only work so far done relating to the plants of the coal-measures. There should surely be complete monographs of the plants of other horizons, of the very numerous invertebrata and of the important remains of the *vertebrata* found at several horizons and various localities within the State.

RECENT BOOKS AND PAMPHLETS.—Haeckel's *Genesis of Man*. By Lester F. Ward, A.M. 8vo, pp. 64. Philadelphia, 1879.

Our Earliest Ancestors in Britain. By Prof. Boyd Dawkins. 12mo, pp. 95-105. (Science Lectures for the People, No. 6, 10th ser., 1878-9.) From the author.

Ricerche sui Pesci Fossili del Miocene Medio di Gahard (Ille-e-Vilaine) in Francia. Fr. Bassani. 8vo, pp. 30. Tav. 1. Padova, 1879. From the author.

Notes on the Mesozoic of Virginia. By Wm. M. Fontaine. (From the Amer. Jour. Sci. and Arts, Vol. XVII, Jan. 1879.) 8vo, pp. 25-55. From the author.

Recherches sur les Oiseaux Fossiles des Terrains Tertiaires Inférieurs des Environs de Reims. Par M. Victor Lemoine. 8vo, pp. 69, pl. 4. Reims, 1878. From the author.

On the Range of the Mammoth in Space and Time. By W. Boyd Dawkins. (From the Quart. Journ. Geol. Soc. for Feb., 1879.) 8vo, pp. 138-147. From the author.

Note sur quelques Scincoidiens Nouveaux. Par M. T. Bocourt. (From Ann. Sc. Nat.) 8vo, pp. 4. From the author.

On a New Species of *Loftusia* from British Columbia. By Geo. M. Dawson. (From the Quart. Journ. Geol. Soc., Feb., 1879.) 8vo, pp. 69-75, pl. 1. From the author.

On the Microscopic Structure of *Stromatoporidae*, and on Palæozoic Fossils mineralized with Silicates, in illustration of *Eozoon*. By J. W. Dawson. (From Quart. Journ. Geol. Soc. Feb. 1879.) 8vo, pp. 48-67, pl. iii-v. From the author.

Notes on the Loess. By J. M. Witter. (From *Muscatine Tribune*.) Muscatine, Feb. 10th, 1879. 8vo. From the author.

Natural Science in Muscatine. By F. M. Witter. 8vo. Muscatine, March 24th, 1879. From the author.

Catalogue of Fossils found in the Hudson River, Utica Slate, and Trenton Groups, as exposed in the south-east part of Indiana, south-west part of Ohio, and northern part of Kentucky. By S. A. Miller. (From 10th Ann. Rep. Geol. Surv. of Indiana.) March 1879. 8vo, pp. 35. From the author.

Notes on the Glaciation of British Columbia. By Geo. M. Dawson. (From the Canadian Naturalist, Vol. ix, No. 1.) 8vo, pp. 8. From the author.

Characeæ Americanæ. By Timothy F. Allen. 4to, pt. 1, pp. 1, pl. 1. New York. From the author.